**MedFrontier FGF23**

**INTACT HUMAN FGF23 CLEIA KIT**

Manufactured by Kyowa Medex Co., Ltd— Tokyo, Japan
Distributed by Eagle Biosciences, Inc— USA

**WHAT IS FGF23?**

Fibroblast Growth Factor 23 (FGF23) is a hormone that is secreted by osteoblasts with the bones. This protein works primarily with the kidneys to help regulate levels of phosphate within the bloodstream via signals for removal or reabsorption. The parathyroid and digestive system also aid in phosphates homeostasis within the body. The kidneys remove excess phosphate through waste and reabsorbs it via the small intestines when needed.

**WHY MEASURE FGF23?**

Phosphate plays a critical role in the formation and growth of bones in children and maintaining strength in adults. If there is an imbalance of FGF23 within the bloodstream, it can cause hyper- or hypophosphatemia. These conditions have been linked to Rickets, osteomalacia, and impaired renal function to name a few.

**WHY OUR FGF23 KITS ARE DIFFERENT!**

- Broader Dynamic Range
- Simpler Assay
- Correlates with Existing Methods

MedFrontier FGF23 is a CLEIA kit that measures only intact/active forms of FGF23. Studying intact FGF23 has shown to provide greater accuracy when researching the importance of this protein.

**CLEIA Details**

- **Dynamic Range:** 15-3000 pg/mL
- **Incubation Time:** 180 minutes
- **Sample Size:** 20 µL
- **Sample Type:** Human Serum

**Mechanism of action of intact FGF23**

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Bone  FGF23 (Secreted from bone cells)  FGF23 (Intact/Active)
       - 25(OH)D 1,25(OH)2D 1α-Hydroxylase
       - Phosphate Absorption (Intestinal tract)  Phosphate Reabsorption (Kidney tubule)
       - Kidney tubule cells
       - Blood  FGF23 (Intact/Active)  FGF23 (Intact/Active)  FGF2R
       - Urine

: NaPi-2a (co-transporter)
: NaPi-2c (co-transporter)
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**CONTACT US FOR MORE INFORMATION!**

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